## What Is Claimed Is:

- 1. A method for producing a corrosion-resistant and oxidation-resistant coating for a component part, especially for a component part of a gas turbine, having the following steps:
  - a) making available a component part made of a component part material,
  - b) making available a slip material which, besides a binding agent, contains at least one metal powder, the metal powder being made up of up to at least 25 wt.% of at least one metal of the platinum group, and
    - b1) is formed of jacketed powder cores, the powder cores being formed from at least one metal of the platinum group; and the jacketing of the powder cores being formed of a material based on the same material as the component part material, or
    - being formed of a metal powder alloy which, besides the at least one metal of the platinum group, contains at least one material based on the same material as the component part material,
  - c) applying the slip material at least from area to area onto the component part while forming a slip layer,
  - d) curing and drying the slip layer,
  - e) heat treating the component part that is coated with the slip material at least from area to area, in order to diffuse the slip layer into the component part.

- 2. The method as recited in Claim 1, wherein the powder cores of the metal powder are formed from platinum (Pt) and/or palladium (Pd).
- 3. The method as recited in Claim 1 or 2, wherein in the case of a component part material developed as a nickel-based alloy, the jacketing of the powder cores is formed from nickel (Ni) or a nickel alloy.
- 4. The method as recited in Claim 1 or 2, wherein in the case of a component part material developed as a cobalt-based alloy, the jacketing of the powder cores is formed from cobalt (Co) or a cobalt alloy.
- 5. The method as recited in Claim 1 or 2, wherein in the case of a component part material developed as an iron material, the jacketing of the powder cores is formed from iron (Fe) or an iron alloy.
- 6. The method as recited in one or more of Claims 1 through 5, wherein the thickness of the jacketing of the metal powder developed as jacketed powder cores is selected in such a way that the proportion of the material of the powder cores in the metal powder is at 25 wt.% to 85 wt.%, and the proportion of the material of the jacketing is at 75 wt.% to 15 wt.%.
- 7. The method as recited in Claim 6, wherein the metal powder is developed as nickel-jacketed platinum, the thickness of the nickel jacketing being selected in such a way that the platinum proportion is at 65 wt.% to 85 wt.% and the nickel proportion is at 35 wt.% to 15 wt.%.
- 8. The method as recited in Claim 1, wherein the metal powder is formed from a metal powder alloy which, besides

- platinum, contains at least one material based on the same material as the material of the component part.
- 9. The method as recited in Claim 8, wherein the metal powder is formed as a metal powder alloy having 65 wt.% to 86 wt.% platinum and 35 wt.% to 15 wt.% nickel.
- 10. The method as recited in one or more of Claims 1 through 9, wherein the slip material, besides the binding agent and the metal powder also contains aluminum (Al) and/or silicon (Si).
- 11. The method as recited in one or more of Claims 1 through 9, wherein the slip material, besides the binding agent and the metal powder, also contains an MCrAlY metal powder.
- 12. The method as recited in one or more of Claims 1 through 11, wherein the metal powder has a grain size distribution of 0.01  $\mu m$  to 5  $\mu m$ , preferably from 0.2  $\mu m$  to 0.5  $\mu m$ .
- 13. The method as recited in one or more of Claims 1 through 11, wherein subsequently to step e), an aluminizing of the component part is carried out.
- 14. A component part, especially a turbine blade of a gas turbine, having a corrosion-resistant and oxidationresistant coating, the coating being applied to the component part by a method according to one or more of Claims 1 through 13.